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is first lighted. The base of the candlestick *d*, and the curved support *e* to which the extinguisher is attached, do not require description. It is obvious that the spiral spring must be of such a length as to keep the candle close up to the cap *b* till it is entirely consumed.

From several experiments it appears that a candle placed in this stick is burned more perfectly, and with less waste and guttering, the more it is blown about by the wind, provided the draft is not so violent as to extinguish it.

## No. VIII.

### SCALE-PLATE.

*The Thanks of the Society were voted to Mr. W. JUGGINS, James-street, Covent-garden, for his Scale-plate for weighing Butter and Cheese; one of which has been placed in the Society's Repository.*

MR. JUGGINS is a dealer in butter and cheese. He states that in weighing the former it is the practice to wet the metal dish at present in use, in order to prevent the butter from adhering to it: the true weight of the butter is therefore less than the apparent by all the water that is put on the dish; a circumstance that, in weighing out butter by the ounce to small customers, amounts to a very sensible proportion of the whole weight.

It is also necessary, especially in hot weather, to scour the scale-dish two or three times a-day, both for the

appearance of cleanliness and to prevent the scale from giving a taint to the butter placed on it. But this frequent scouring makes the scale-dish too light, and, in order to adjust the scales, there is a constant temptation to employ contrivances which subject them to be broken when examined by the Annoyance Jury.

For the last five years Mr. Juggins has employed a plate of glazed porcelain instead of metal, by which he obtains the advantage of constant cleanliness, without the necessity of wetting the surface of the plate before using it: there is no sensible loss of weight, for this plate never requires to be scoured, but only to be washed or wiped; the butter receives no taint, and the evident cleanliness conciliates the good will of customers. The cost of one of these plates, on account of its size and thickness, is seven shillings and sixpence; but Mr. J. has not hitherto had any broken, so that with common care they will seldom require to be renewed.